

S/N Unknown

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert J. Sweeney et al.	Examiner:	Unknown
Serial No.:	Unknown	Group Art Unit:	Unknown
Filed:	Herewith	Docket:	279.188US2
Title:	CURVATURE BASED METHOD FOR SELECTING FEATURES FROM AN ELECTROPHYSIOLOGIC SIGNALS FOR PURPOSE OF COMPLEX IDENTIFICATION AND CLASSIFICATION		

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Pursuant to 37 C.F.R. §1.98(d), copies of the listed documents are not provided as these references were previously cited by or submitted to the U.S. Patent Office in connection with Applicants' prior U.S. application, Serial No. 09/703,269, filed on October 31, 2000, which is relied upon for an earlier filing date under 35 U.S.C. §120.

INFORMATION DISCLOSURE STATEMENT

Serial No :Unknown

Filing Date: Herewith

Title: CURVATURE BASED METHOD FOR SELECTING FEATURES FROM AN ELECTROPHYSIOLOGIC SIGNALS FOR PURPOSE OF COMPLEX IDENTIFICATION AND CLASSIFICATION

Page 2

Dkt: 279.188US2

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

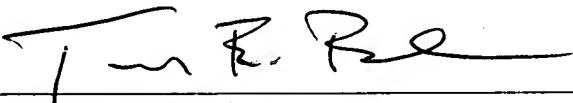
Respectfully submitted,

ROBERT J. SWEENEY ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6912

Date Dec. 12, 2003

By 

Timothy E. Bianchi
Reg. No. 39,610

"Express Mail" mailing label number: EV299684581US

Date of Deposit: December 12, 2003

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to The Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	Unknown
Filing Date	Even Date Herewith
First Named Inventor	Sweeney, Robert
Group Art Unit	Unknown
Examiner Name	Unknown

Sheet 1 of 2

Attorney Docket No: 279.188US2

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-4,531,527	07/30/1985	Reinhold Jr., H. E., et al.	128	696	04/23/1982
	US-5,000,189	03/19/1991	Throne, R. D., et al.	128	702	11/15/1989
	US-5,139,028	08/18/1992	Steinhaus, B. M., et al.	128	697	10/26/1990
	US-5,184,615	02/09/1993	Nappholz, T. A., et al.	128	419 PG	03/08/1991
	US-5,215,098	06/01/1993	Steinhaus, B. M., et al.	128	702	08/12/1991
	US-5,217,021	06/08/1993	Steinhaus, , et al.	128	702	07/30/1991
	US-5,255,186	10/19/1993	Steinhaus, B. M., et al.	364	413	08/06/1991
	US-5,273,049	12/28/1993	Steinhaus, B. M., et al.	128	696	04/09/1992
	US-5,292,348	03/08/1994	Saumarez, R. , et al.	607	5	04/13/1992
	US-5,312,445	05/17/1994	Nappholz, T. A., et al.	607	9	02/03/1992
	US-5,313,953	05/24/1994	Yomtov, B. M., et al.	128	696	01/14/1992
	US-5,331,966	07/26/1994	Bennett, T. D., et al.	128	696	12/16/1993
	US-5,388,578	02/14/1995	Yomtov, B. M., et al.	128	642	04/06/1993
	US-5,400,795	03/28/1995	Murphy, A. J., et al.	128	702	10/22/1993
	US-5,411,031	05/02/1995	Yomtov, B. M.	128	706	11/24/1993
	US-5,421,830	06/06/1995	Epstein, A. E., et al.	607	30	08/27/1993
	US-5,447,519	09/05/1995	Peterson, D. K.	607	5	03/19/1994
	US-5,458,623	10/17/1995	Lu, R. M., et al.	607	28	03/04/1994
	US-5,509,927	04/23/1996	Epstein, A. E., et al.	607	32	02/01/1995
	US-5,542,430	08/06/1996	Farrugia, S. , et al.	128	705	09/16/1994
	US-5,713,367	02/03/1998	Arnold, , et al.	128	704	01/26/1995
	US-5,755,739	05/26/1998	Sun, W. , et al.	607	14	12/04/1996
	US-5,779,645	07/14/1998	Olson, T. S., et al.	600	518	12/17/1996
	US-5,792,066	08/11/1998	Kwong, Manlik	600	517	01/09/1997
	US-5,797,849	08/25/1998	Vesely, I. , et al.	600	461	03/07/1997
	US-5,817,133	10/06/1998	Houben, Richard P.	607	9	03/04/1997
	US-5,827,195	10/27/1998	Lander, Paul	600	509	05/09/1997
	US-5,957,857	09/28/1999	Hartley, J. W.	600	521	05/07/1998
	US-6,108,577	08/22/2000	Benser, N. E.	600	517	04/26/1999
	US-6,212,428	04/03/2001	Hsu, William , et al.	600	515	05/22/2000
	US-6,223,078	04/24/2001	Marcovecchio, A. F.	607	5	03/12/1999
	US-6,233,072	05/15/2001	Liu, Shoa-Kai , et al.	359	110	12/31/1997
	US-6,233,078	05/15/2001	Harano, Hiroshi , et al.	359	134	04/21/1998
	US-6,233,487	05/15/2001	Mika, Yuval , et al.	607	27	06/23/1999

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	Unknown
Filing Date	Even Date Herewith
First Named Inventor	Sweeney, Robert
Group Art Unit	Unknown
Examiner Name	Unknown

Sheet 2 of 2

Attorney Docket No: 279.188US2

	US-6,263,242	07/01/2001	Mika, Yuval , et al.	607	9	03/25/1999
	US-6,266,554	07/24/2001	Hsu, William , et al.	600	515	02/12/1999
	US-6,275,732	08/14/2001	Hsu, William , et al.	607	14	06/17/1998
	US-6,301,503	10/09/2001	Hsu, W. , et al.	607	30	09/29/1900
	US-6,308,095	10/23/2001	Hsu, W. , et al.	600	518	02/12/1999
	US-6,312,388	11/06/2001	Marcovecchio, Alan F., et al.	600	508	03/12/1999
	US-6,370,430	04/01/2002	Mika, Yuval , et al.	607	9	05/16/2000
	US-6,434,417	08/13/2002	Lovett, Eric G.	600	509	03/28/2000
	US-6,449,503	09/10/2002	Hsu, William	600	518	01/14/1999
	US-6,484,055	11/19/2002	Marcovecchio, Alan F.	607	5	09/20/2000
	US-6,516,225	02/04/2003	Florio, Joseph J.			09/15/2000

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
	EP-0 469 817 A2	02/05/1992	Larnard, Donald J., et al.	A61N	1/362	
	EP-0 506 230	09/30/1992	Williams, Michael O.	A61N	1/362	
	EP-0554208	08/04/1993	Yomtov, B. M., et al.	A61B	5/0452	
	EP-0711531	05/15/1996	Karlsson, P. , et al.	A61B	5/0452	
	WO-00/10455	03/02/2000	Litt, B. , et al.	A61B	5/04	
	WO-00/47278	08/17/2000	Hsu, W. , et al.	A61N	1/37	
	WO-99/65570	12/23/1999	Hsu, W. , et al.	A61N	1/39	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"PCT International Search Report", from International Application No. PCT/US 01/45763, dated September 3, 2002,8	
		DURU, FIRAT , et al., "The Potential for Inappropriate Ventricular Tachycardia Confirmation Using the Intracardiac Electrogram (EGM) Width Criterion", <u>PACE</u> , vol. 22, 1999, (July 1999),1039-1046	
		GRADY, THOMAS A., et al., "Prognostic Significance of Exercise-Induced Left Bundle-Branch Block", <u>JAMA</u> , vol. 279, no.2, January 14, 1998, (01 14 1998),153-156	
		IEEE, "Microcomputer-Based Telemetry System for ECG Monitoring", <u>IEEE Proc. of the Ann. Int'l Conf. of the Engineering in Medicine and Biology Society</u> , Vol. Conf. 9, XP000015425, (1987),1492-193	
		KINOSHITA, SHINJI , et al., "Transient Disappearance of Complete Right Bundle Branch (BBB) During Exercise", <u>Journal of Electrocardiology</u> , Vol. 29, No. 3, 1996, (1996),255-256	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached